CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No.: CQCE/BBMP/NMK/17/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 24.02.2021

Client	: **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	: **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the work	: Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2021	24.02.2021	8.030	536.6	23.85
2	27.03.2021	24.02.2021	8.145	520.1	23.12
3	27.03.2021	24.02.2021	8.056	517.1	22.98

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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IAS-ANZ ISO 9001:2008 CERTIFIED

Job No.: CQCE/BBMP/NMK/17/2020-2021

Date: 24.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2021	24.02.2021	8.056	513.3	22.81
2	27.03.2021	24.02.2021	8.096	524.4	23.31
3	27.03.2021	24.02.2021	8.026	514.4	22.86

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IAS-ANZ

Job No: CQCE/BBMP/NMK/17/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 26.04.2021

Client	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the work	Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2021	26.04.2021	8.065	506.0	22.49
2	29.03.2021	26.04.2021	8.015	521.1	23.16
3	29.03.2021	26.04.2021	8.096	504.1	22.40

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2021	26.04.2021	8.215	506.6	22.52
2	29.03.2021	26.04.2021	8.066	528.5	23.49
3	29.03.2021	26.04.2021	8.025	512.2	22.76

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2021	26.04.2021	8.036	526.6	23.40
2	29.03.2021	26.04.2021	8.021	530.2	23.56
3	29.03.2021	26.04.2021	8.046	514.4	22.86

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2021	26.04.2021	8.032	532.0	23.64
2	29.03.2021	26.04.2021	8.145	504.2	22.41
3	29.03.2021	26.04.2021	8.069	514.4	22.86

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2021	29.04.2021	8.202	265.5	11.80
2	22.04.2021	29.04.2021	8.140	249.9	11.11
3	22.04.2021	29.04.2021	8.036	263.3	11.70

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2021	29.04.2021	8.022	265.5	11.80
2	22.04.2021	29.04.2021	8.145	246.6	10.96
3	22.04.2021	29.04.2021	8.036	250.1	11.12

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Grade of Concrete	: M_{15}
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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2021	29.04.2021	8.202	263.3	11.70
2	22.04.2021	29.04.2021	8.140	250.2	11.12
3	22.04.2021	29.04.2021	8.096	249.9	11.11

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Job No.: CQCE/BBMP/NMK/17/2020-2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 20.05.2021

Client	: **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	: **Sri. N M Krishnamurthy,** Contractor, Bangalore.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2021	20.05.2021	8.012	369.9	16.44
2	22.04.2021	20.05.2021	8.036	385.5	17.13
3	22.04.2021	20.05.2021	8.099	372.2	16.54

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Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2021	20.05.2021	8.154	365.5	16.24
2	22.04.2021	20.05.2021	8.032	349.9	15.55
3	22.04.2021	20.05.2021	8.069	350.2	15.56

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2021	20.05.2021	8.145	367.5	16.33
2	22.04.2021	20.05.2021	8.025	349.9	15.55
3	22.04.2021	20.05.2021	8.090	356.6	15.85

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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
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CQCE/BBMP/NMK/17/2020-2021

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT CONCRETE FLOORING TILES

Date: 17.04.2021

Client	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency	: Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the work	Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)
Description of Sample:	Cement concrete flooring tiles, 25mm thick
Reference to BIS codes:	IS 1237-2012 Specification for Cement Concrete Flooring Tiles
Date of test:	15.04.2021 to 17.04.2021

1.WATER ABSORPTION:

Sl. No.	Water Absorption		Acceptability as per IS 1237-2012
	Percent by weight		
	Individual	Average	
1	2.6	3.0	The average water absorption of 6 tiles shall not exceed 10%
2	3.3		
3	2.4		
4	3.5		
5	2.9		
6	3.2		

2.FLEXURAL STRENGTH:

S.No.	Wet Transverse Strength		Acceptability as per IS 1237-2012
	Individual	Average	
	N/mm^2	N/mm^2	
1	6.6	6.4	The average modulus of rupture in bending of 6 tiles shall not be less than $3N/mm^2$
2	6.2		
3	6.4		
4	6.9		
5	6.2		
6	6.2		

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

Authorised Signatory

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the Report shall be reported within 30 days from the date of receipt.

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CQCE/BBMP/NMK/17/2020-2021 15.04.2021

TEST REPORT ON MECHANICAL PROPORTIES OF CHAIN LINK FENCING, M.S.BLOCK PIPE, M.S. RECTANGULAR POLE

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)

Sample Identification: Chain link fencing, MS-Block Pipe 38MM dia, M.S. Rectangular Pole
Reference to BIS code: IS 1161:1998 Steel for Structural Purposes-Specification
Date of test: 15.04.2021

Description of Sample	Description	Results	Required as per IS 1161-1998
Chain link fencing 50 mm of 8 Gauge	Diameter	3.34 mm	3.15mm
	Measured mesh	size 51 mm	50 ± 3 mm

Description of Sample	Description	Results	Required as per IS 1161-1998
MS-Block Pipe 38MM dia of heavy guage of 14	Mass	2.23 Kg/m	
	Yield Stress	223 N/mm2 Mpa	210 Mpa min
	Tensile Strength	345 N/mm2 Mpa	330 Mpa min
	Percent	23	20% min

Description of Sample	Description	Results	Required as per IS 2062:2006, 608:1989
M.S. Rectangular Pole of 2 equal angles 65mm X 65mm X 6mm	Mass	5.83 Kg/m	5.8
	Yield Stress	165 N/mm2 Mpa	165 Mpa min
	Tensile Strength	314N/mm2 Mpa	290 Mpa min
	Percent	24	23% min

Asst. Executive Engineer
Yeshwanthpura Sub-Division
BBMP Bangalore Mahanagara Palike

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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